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1. Document ID: US 7041814 B1

L2: Entry 1 of 19

File: USPT

May 9, 2006

US-PAT-NO: 7041814

DOCUMENT-IDENTIFIER: US 7041814 B1

TITLE: Nucleic acid and amino acid sequences relating to Enterobacter cloacae for diagnostics and therapeutics

DATE-ISSUED: May 9, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinstock; Keith G.	Westborough	MA		US
Deloughery; Craig	Medford	MA		US
Bush; David	Somerville	MA		US

US-CL-CURRENT: 536/24.1; 435/252.3, 435/320.1, 435/325, 435/4, 435/6, 435/69.1,
435/69.6, 536/23.1, 536/23.2, 536/23.5, 536/23.7

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

2. Document ID: US 6617156 B1

L2: Entry 2 of 19

File: USPT

Sep 9, 2003

US-PAT-NO: 6617156

DOCUMENT-IDENTIFIER: US 6617156 B1

TITLE: Nucleic acid and amino acid sequences relating to Enterococcus faecalis for diagnostics and therapeutics

DATE-ISSUED: September 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doucette-Stamm; Lynn A.	Framingham	MA	01701	
Bush; David	Somerville	MA	02144	

US-CL-CURRENT: 435/320.1; 435/252.3, 435/6, 435/69.1, 536/23.7, 536/24.32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D.
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3. Document ID: US 6562958 B1

L2: Entry 3 of 19

File: USPT

May 13, 2003

US-PAT-NO: 6562958

DOCUMENT-IDENTIFIER: US 6562958 B1

TITLE: Nucleic acid and amino acid sequences relating to *Acinetobacter baumannii* for diagnostics and therapeutics

DATE-ISSUED: May 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Breton; Gary	Marlborough	MA		
Bush; David	Somerville	MA		

US-CL-CURRENT: 536/23.7; 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D.
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4. Document ID: US 6242211 B1

L2: Entry 4 of 19

File: USPT

Jun 5, 2001

US-PAT-NO: 6242211

DOCUMENT-IDENTIFIER: US 6242211 B1

TITLE: Methods for generating and screening novel metabolic pathways

DATE-ISSUED: June 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Peterson; Todd C.	Coronado	CA		
Brian; Paul	San Diego	CA		

US-CL-CURRENT: 435/41; 435/320.1, 435/463, 435/468, 435/477, 435/91.41, 435/91.52,
536/23.5, 536/23.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D.
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5. Document ID: US 6048694 A

L2: Entry 5 of 19

File: USPT

Apr 11, 2000

US-PAT-NO: 6048694

DOCUMENT-IDENTIFIER: US 6048694 A

TITLE: Bacterial positive selection vector

DATE-ISSUED: April 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bramucci; Michael Gene	Milmont Park	PA		
Nagarajan; Vasantha	Wilmington	DE		

US-CL-CURRENT: 435/6, 435/252.3, 435/252.31, 435/252.35, 435/320.1, 435/471,
435/476, 435/479, 435/485, 435/486, 435/487

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

6. Document ID: US 5904922 A

L2: Entry 6 of 19

File: USPT

May 18, 1999

US-PAT-NO: 5904922

DOCUMENT-IDENTIFIER: US 5904922 A

TITLE: Treatment with polyvalent antivenom containing immunoglobulin which is greater than 50% venom-reactive

DATE-ISSUED: May 18, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Carroll; Sean B.	Cottage Grove	WI		

US-CL-CURRENT: 424/130.1, 424/158.1, 424/542, 435/174, 435/178, 435/180, 436/518,
436/529, 436/824, 514/2, 514/21, 530/387.1, 530/389.1, 530/413, 530/810, 530/813,
530/856, 530/858

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

7. Document ID: US 5874278 A

L2: Entry 7 of 19

File: USPT

Feb 23, 1999

US-PAT-NO: 5874278

DOCUMENT-IDENTIFIER: US 5874278 A

TITLE: Protease deletion

DATE-ISSUED: February 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Sloma; Alan	Watertown	MA
Rufo, Jr.; Gerald A.	Burlington	MA
Rudolph; Cathy Faye	Stoughton	MA
Sullivan; Barbara J.	Burlington	MA
Pero; Janice	Lexington	MA

US-CL-CURRENT: 435/222; 435/252.3, 435/320.1, 536/23.2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

8. Document ID: US 5824485 A

L2: Entry 8 of 19

File: USPT

Oct 20, 1998

US-PAT-NO: 5824485

DOCUMENT-IDENTIFIER: US 5824485 A

TITLE: Methods for generating and screening novel metabolic pathways

DATE-ISSUED: October 20, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thompson; Katie A.	Del Mar	CA		
Foster; Lyndon M.	Carlsbad	CA		
Peterson; Todd C.	Chula Vista	CA		
Nasby; Nicole Marie	San Diego	CA		
Brian; Paul	San Diego	CA		

US-CL-CURRENT: 435/6; 435/320.1, 435/455, 435/471, 435/489, 435/69.1, 435/91.41,
435/DIG.23, 435/DIG.26, 435/DIG.47, 435/DIG.5, 435/DIG.6, 435/DIG.7, 435/DIG.8,
536/23.1

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9. Document ID: US 5783431 A

L2: Entry 9 of 19

File: USPT

Jul 21, 1998

US-PAT-NO: 5783431

DOCUMENT-IDENTIFIER: US 5783431 A

TITLE: Methods for generating and screening novel metabolic pathways

DATE-ISSUED: July 21, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Peterson; Todd C.	Chula Vista	CA		

Foster; Lyndon M.	Carlsbad	CA
Brian; Paul	San Diego	CA

US-CL-CURRENT: 435/455; 435/320.1, 435/463, 435/466, 435/471, 435/472, 435/474,
435/489, 536/23.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

10. Document ID: US 5620880 A

L2: Entry 10 of 19

File: USPT

Apr 15, 1997

US-PAT-NO: 5620880

DOCUMENT-IDENTIFIER: US 5620880 A

TITLE: Protease deletion

DATE-ISSUED: April 15, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sloma; Alan	Watertown	MA		
Rufo, Jr.; Gerald A.	Burlington	MA		
Rudolph; Cathy F.	Stoughton	MA		
Sullivan; Barbara J.	Burlington	MA		
Pero; Janice	Lexington	MA		

US-CL-CURRENT: 435/252.31; 424/93.2, 435/222, 435/252.5

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1. Document ID: US 7041814 B1

L2: Entry 1 of 19

File: USPT

May 9, 2006

US-PAT-NO: 7041814

DOCUMENT-IDENTIFIER: US 7041814 B1

TITLE: Nucleic acid and amino acid sequences relating to Enterobacter cloacae for diagnostics and therapeutics

DATE-ISSUED: May 9, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinstock; Keith G.	Westborough	MA		US
Deloughery; Craig	Medford	MA		US
Bush; David	Somerville	MA		US

US-CL-CURRENT: 536/24.1; 435/252.3, 435/320.1, 435/325, 435/4, 435/6, 435/69.1,
435/69.6, 536/23.1, 536/23.2, 536/23.5, 536/23.7

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Assigned Claims](#) | [KMC](#) | [Drawn D.](#)

2. Document ID: US 6617156 B1

L2: Entry 2 of 19

File: USPT

Sep 9, 2003

US-PAT-NO: 6617156

DOCUMENT-IDENTIFIER: US 6617156 B1

TITLE: Nucleic acid and amino acid sequences relating to Enterococcus faecalis for diagnostics and therapeutics

DATE-ISSUED: September 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doucette-Stamm; Lynn A.	Framingham	MA	01701	
Bush; David	Somerville	MA	02144	

US-CL-CURRENT: 435/320.1; 435/252.3, 435/6, 435/69.1, 536/23.7, 536/24.32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D.
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3. Document ID: US 6562958 B1

L2: Entry 3 of 19

File: USPT

May 13, 2003

US-PAT-NO: 6562958

DOCUMENT-IDENTIFIER: US 6562958 B1

TITLE: Nucleic acid and amino acid sequences relating to *Acinetobacter baumannii* for diagnostics and therapeutics

DATE-ISSUED: May 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Breton; Gary	Marlborough	MA		
Bush; David	Somerville	MA		

US-CL-CURRENT: 536/23.7; 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D.
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4. Document ID: US 6242211 B1

L2: Entry 4 of 19

File: USPT

Jun 5, 2001

US-PAT-NO: 6242211

DOCUMENT-IDENTIFIER: US 6242211 B1

TITLE: Methods for generating and screening novel metabolic pathways

DATE-ISSUED: June 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Peterson; Todd C.	Coronado	CA		
Brian; Paul	San Diego	CA		

US-CL-CURRENT: 435/41; 435/320.1, 435/463, 435/468, 435/477, 435/91.41, 435/91.52,
536/23.5, 536/23.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D.
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5. Document ID: US 6048694 A

L2: Entry 5 of 19

File: USPT

Apr 11, 2000

US-PAT-NO: 6048694

DOCUMENT-IDENTIFIER: US 6048694 A

TITLE: Bacterial positive selection vector

DATE-ISSUED: April 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bramucci; Michael Gene	Milmont Park	PA		
Nagarajan; Vasantha	Wilmington	DE		

US-CL-CURRENT: 435/6, 435/252.3, 435/252.31, 435/252.35, 435/320.1, 435/471,
435/476, 435/479, 435/485, 435/486, 435/487

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

6. Document ID: US 5904922 A

L2: Entry 6 of 19

File: USPT

May 18, 1999

US-PAT-NO: 5904922

DOCUMENT-IDENTIFIER: US 5904922 A

TITLE: Treatment with polyvalent antivenom containing immunoglobulin which is greater than 50% venom-reactive

DATE-ISSUED: May 18, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Carroll; Sean B.	Cottage Grove	WI		

US-CL-CURRENT: 424/130.1, 424/158.1, 424/542, 435/174, 435/178, 435/180, 436/518,
436/529, 436/824, 514/2, 514/21, 530/387.1, 530/389.1, 530/413, 530/810, 530/813,
530/856, 530/858

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

7. Document ID: US 5874278 A

L2: Entry 7 of 19

File: USPT

Feb 23, 1999

US-PAT-NO: 5874278

DOCUMENT-IDENTIFIER: US 5874278 A

TITLE: Protease deletion

DATE-ISSUED: February 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Sloma; Alan	Watertown	MA
Rufo, Jr.; Gerald A.	Burlington	MA
Rudolph; Cathy Faye	Stoughton	MA
Sullivan; Barbara J.	Burlington	MA
Pero; Janice	Lexington	MA

US-CL-CURRENT: 435/222; 435/252.3, 435/320.1, 536/23.2

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8. Document ID: US 5824485 A

L2: Entry 8 of 19

File: USPT

Oct 20, 1998

US-PAT-NO: 5824485

DOCUMENT-IDENTIFIER: US 5824485 A

TITLE: Methods for generating and screening novel metabolic pathways

DATE-ISSUED: October 20, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thompson; Katie A.	Del Mar	CA		
Foster; Lyndon M.	Carlsbad	CA		
Peterson; Todd C.	Chula Vista	CA		
Nasby; Nicole Marie	San Diego	CA		
Brian; Paul	San Diego	CA		

US-CL-CURRENT: 435/6; 435/320.1, 435/455, 435/471, 435/489, 435/69.1, 435/91.41,
435/DIG.23, 435/DIG.26, 435/DIG.47, 435/DIG.5, 435/DIG.6, 435/DIG.7, 435/DIG.8,
536/23.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

9. Document ID: US 5783431 A

L2: Entry 9 of 19

File: USPT

Jul 21, 1998

US-PAT-NO: 5783431

DOCUMENT-IDENTIFIER: US 5783431 A

TITLE: Methods for generating and screening novel metabolic pathways

DATE-ISSUED: July 21, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Peterson; Todd C.	Chula Vista	CA		

Foster; Lyndon M.	Carlsbad	CA
Brian; Paul	San Diego	CA

US-CL-CURRENT: 435/455; 435/320.1, 435/463, 435/466, 435/471, 435/472, 435/474,
435/489, 536/23.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

10. Document ID: US 5620880 A

L2: Entry 10 of 19

File: USPT

Apr 15, 1997

US-PAT-NO: 5620880

DOCUMENT-IDENTIFIER: US 5620880 A

TITLE: Protease deletion

DATE-ISSUED: April 15, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sloma; Alan	Watertown	MA		
Rufo, Jr.; Gerald A.	Burlington	MA		
Rudolph; Cathy F.	Stoughton	MA		
Sullivan; Barbara J.	Burlington	MA		
Pero; Janice	Lexington	MA		

US-CL-CURRENT: 435/252.31; 424/93.2, 435/222, 435/252.5

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1. Document ID: US 7183054 B2

L3: Entry 1 of 17

File: USPT

Feb 27, 2007

US-PAT-NO: 7183054

DOCUMENT-IDENTIFIER: US 7183054 B2

TITLE: Assay for identifying biological targets of polynucleotide-binding compounds

DATE-ISSUED: February 27, 2007

PRIOR-PUBLICATION:

DOC-ID DATE

US 20040248100 A1 December 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Myers; Andrew G.	Boston	MA		US
LaPorte; Jacob R.	Cambridge	MA		US
Xing; Chengguo	Minneapolis	MN		US

US-CL-CURRENT: 435/6; 435/5, 435/7.1, 435/7.2, 514/1, 514/44, 530/300, 536/23.1,
536/24.3

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KOMC](#) [Drawn D.](#)

2. Document ID: US 7153856 B2

L3: Entry 2 of 17

File: USPT

Dec 26, 2006

US-PAT-NO: 7153856

DOCUMENT-IDENTIFIER: US 7153856 B2

TITLE: Cyclic protein tyrosine kinase inhibitors

DATE-ISSUED: December 26, 2006

PRIOR-PUBLICATION:

DOC-ID DATE

US 20050288303 A1 December 29, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barrish; Joel C.	Richboro	PA		US
Wityak; John	Carlsbad	CA		US
Das; Jagabandhu	Mercerville	NJ		US
Chen; Ping	Belle Mead	NJ		US
Norris; Derek J.	Pennington	NJ		US
Schieven; Gary	Lawrenceville	NJ		US

US-CL-CURRENT: 514/252.11; 544/357

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

3. Document ID: US 7141578 B2

L3: Entry 3 of 17

File: USPT

Nov 28, 2006

US-PAT-NO: 7141578

DOCUMENT-IDENTIFIER: US 7141578 B2

TITLE: Fused heterocyclic succinimide compounds and analogs thereof, modulators of nuclear hormone receptor function

DATE-ISSUED: November 28, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20050192253 A1	September 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Salvati; Mark E.	Lawrenceville	NJ		US
Balog; James Aaron	Lambertville	NJ		US
Pickering; Dacia A.	Lawrenceville	NJ		US
Giese; So	New Hope	PA		US
Fura; Aberra	Lawrenceville	NJ		US
Li; Wenying	Middletown	CT		US
Patel; Ramesh N.	Bridgewater	NJ		US
Hanson; Ronald L.	Morris Plains	NJ		US
Mitt; Toomas	Plainsboro	NJ		US
Roberge; Jacques Y..	Princeton.	NJ		US
Corte; James R.	Lawrenceville	NJ		US
Spergel; Steven H.	Warrington	PA		US
Rampulla; Richard A.	Flemington	NJ		US
Misra; Raj N.	Hopewell	NJ		US
Xiao; Hai-Yun	Princeton	NJ		US

US-CL-CURRENT: 514/293; 514/411, 546/83, 548/428

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawn D.
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 4. Document ID: US 7125875 B2

L3: Entry 4 of 17

File: USPT

Oct 24, 2006

US-PAT-NO: 7125875

DOCUMENT-IDENTIFIER: US 7125875 B2

TITLE: Cyclic protein tyrosine kinase inhibitors

DATE-ISSUED: October 24, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040054186 A1	March 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Das; Jagabandhu	Mercerville	NJ		US
Padmanabha; Ramesh	Hamden	CT		US
Chen; Ping	Belle Mead	NJ		US
Norris; Derek J.	Trenton	NJ		US
Doweyko; Arthur M. P.	Long Valley	NJ		US
Barrish; Joel C.	Richboro	PA		US
Wityak; John	Robbinsville	NJ		US
Lombardo; Louis J.	Belle Mead	NJ		US
Lee; Francis Y. F.	Yardley	PA		US

US-CL-CURRENT: 514/252.19; 514/370

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawn D.
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 5. Document ID: US 7122549 B2

L3: Entry 5 of 17

File: USPT

Oct 17, 2006

US-PAT-NO: 7122549

DOCUMENT-IDENTIFIER: US 7122549 B2

TITLE: Saframycins, analogues and uses thereof

DATE-ISSUED: October 17, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040204419 A1	October 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Myers; Andrew G.	Boston	MA		US
Plowright; Alleyn T.	Manchester			GB

US-CL-CURRENT: 514/250; 544/342

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

6. Document ID: US 7091223 B2

L3: Entry 6 of 17

File: USPT

Aug 15, 2006

US-PAT-NO: 7091223

DOCUMENT-IDENTIFIER: US 7091223 B2

TITLE: Cyclic protein tyrosine kinase inhibitors

DATE-ISSUED: August 15, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040073026 A1	April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Das; Jagabandhu	Mercerville	NJ		US
Padmanabha; Ramesh	Hamden	CT		US
Chen; Ping	Belle Mead	NJ		US
Norris; Derek J.	Trenton	NJ		US
Doweyko; Arthur M. P.	Long Valley	NJ		US
Barrish; Joel C.	Holland	PA		US
Wityak; John	Robbinsville	NJ		US

US-CL-CURRENT: 514/342; 546/270.7

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

7. Document ID: US 7087636 B2

L3: Entry 7 of 17

File: USPT

Aug 8, 2006

US-PAT-NO: 7087636

DOCUMENT-IDENTIFIER: US 7087636 B2

TITLE: Fused heterocyclic compounds and analogs thereof, modulators of nuclear hormone receptor function

DATE-ISSUED: August 8, 2006

PRIOR-PUBLICATION:

DOC-ID DATE
US 20030181728 A1 September 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Salvati; Mark E.	Lawrenceville	NJ		US
Balog; James Aaron	Lambertville	NJ		US
Pickering; Dacia A.	Lawrenceville	NJ		US
Zhu; Hong	Lawrenceville	NJ		US

US-CL-CURRENT: 514/412; 548/453

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

 8. Document ID: US 7001911 B2

L3: Entry 8 of 17

File: USPT

Feb 21, 2006

US-PAT-NO: 7001911

DOCUMENT-IDENTIFIER: US 7001911 B2

TITLE: Fused cyclic modulators of nuclear hormone receptor function

DATE-ISSUED: February 21, 2006

PRIOR-PUBLICATION:

DOC-ID DATE
US 20040077606 A1 April 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Salvati; Mark E.	Lawrenceville	NJ		US
Balog; James Aaron	Lambertville	NJ		US
Shan; Weifang	Princeton	NJ		US
Giese; So	New Hope	PA		US
Harikrishnan; Lalgudi S.	Princeton	NJ		US

US-CL-CURRENT: 514/292; 544/183, 544/337, 544/348, 546/23, 546/86, 548/453,
548/531, 548/536

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

 9. Document ID: US 6992102 B2

L3: Entry 9 of 17

File: USPT

Jan 31, 2006

US-PAT-NO: 6992102

DOCUMENT-IDENTIFIER: US 6992102 B2

TITLE: Bicyclic modulators of androgen receptor function

DATE-ISSUED: January 31, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040092559 A1	May 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hamann; Lawrence	Cherry Hill	NJ		US
Augeri; David	Princeton	NJ		US
Sun; Chongqing	East Windsor	NJ		US
Robl; Jeffrey A.	Newtown	PA		US
Salvati; Mark E.	Lawrenceville	NJ		US
Wang; Tammy	Lawrenceville	NJ		US

US-CL-CURRENT: 514/423; 548/530, 548/531, 548/538

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

10. Document ID: US 6979694 B2

L3: Entry 10 of 17

File: USPT

Dec 27, 2005

US-PAT-NO: 6979694

DOCUMENT-IDENTIFIER: US 6979694 B2

TITLE: Cyclic protein tyrosine kinase inhibitors

DATE-ISSUED: December 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Das; Jagabandhu	Mercerville	NJ		
Padmanabha; Ramesh	Hamden	CT		
Chen; Ping	Belle Mead	NJ		
Norris; Derek J.	Trenton	NJ		
Doweyko; Arthur M. P.	Long Valley	NJ		
Barrish; Joel C.	Holland	PA		
Wityak; John	Robbinsville	NJ		

US-CL-CURRENT: 514/342; 514/371, 544/106, 544/133, 546/270.7, 548/195

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

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Terms	Documents
L1 and safracin	17

Display Format: CIT

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1. Document ID: US 7183054 B2

L3: Entry 1 of 17

File: USPT

Feb 27, 2007

US-PAT-NO: 7183054

DOCUMENT-IDENTIFIER: US 7183054 B2

TITLE: Assay for identifying biological targets of polynucleotide-binding compounds

DATE-ISSUED: February 27, 2007

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040248100 A1	December 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Myers; Andrew G.	Boston	MA		US
LaPorte; Jacob R.	Cambridge	MA		US
Xing; Chengguo	Minneapolis	MN		US

US-CL-CURRENT: 435/6; 435/5, 435/7.1, 435/7.2, 514/1, 514/44, 530/300, 536/23.1,
536/24.3

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D.](#)

2. Document ID: US 7153856 B2

L3: Entry 2 of 17

File: USPT

Dec 26, 2006

US-PAT-NO: 7153856

DOCUMENT-IDENTIFIER: US 7153856 B2

TITLE: Cyclic protein tyrosine kinase inhibitors

DATE-ISSUED: December 26, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20050288303 A1	December 29, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barrish; Joel C.	Richboro	PA		US
Wityak; John	Carlsbad	CA		US
Das; Jagabandhu	Mercerville	NJ		US
Chen; Ping	Belle Mead	NJ		US
Norris; Derek J.	Pennington	NJ		US
Schieven; Gary	Lawrenceville	NJ		US

US-CL-CURRENT: 514/252.11; 544/357

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

3. Document ID: US 7141578 B2

L3: Entry 3 of 17

File: USPT

Nov 28, 2006

US-PAT-NO: 7141578

DOCUMENT-IDENTIFIER: US 7141578 B2

TITLE: Fused heterocyclic succinimide compounds and analogs thereof, modulators of nuclear hormone receptor function

DATE-ISSUED: November 28, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20050192253 A1	September 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Salvati; Mark E.	Lawrenceville	NJ		US
Balog; James Aaron	Lambertville	NJ		US
Pickering; Dacia A.	Lawrenceville	NJ		US
Giese; So	New Hope	PA		US
Fura; Aberra	Lawrenceville	NJ		US
Li; Wenying	Middletown	CT		US
Patel; Ramesh N.	Bridgewater	NJ		US
Hanson; Ronald L.	Morris Plains	NJ		US
Mitt; Toomas	Plainsboro	NJ		US
Roberge; Jacques Y.	Princeton	NJ		US
Corte; James R.	Lawrenceville	NJ		US
Spergel; Steven H.	Warrington	PA		US
Rampulla; Richard A.	Flemington	NJ		US
Misra; Raj N.	Hopewell	NJ		US
Xiao; Hai-Yun	Princeton	NJ		US

US-CL-CURRENT: 514/293; 514/411, 546/83, 548/428

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D.
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 4. Document ID: US 7125875 B2

L3: Entry 4 of 17

File: USPT

Oct 24, 2006

US-PAT-NO: 7125875

DOCUMENT-IDENTIFIER: US 7125875 B2

TITLE: Cyclic protein tyrosine kinase inhibitors

DATE-ISSUED: October 24, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040054186 A1	March 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Das; Jagabandhu	Mercerville	NJ		US
Padmanabha; Ramesh	Hamden	CT		US
Chen; Ping	Belle Mead	NJ		US
Norris; Derek J.	Trenton	NJ		US
Doweyko; Arthur M. P.	Long Valley	NJ		US
Barrish; Joel C.	Richboro	PA		US
Wityak; John	Robbinsville	NJ		US
Lombardo; Louis J.	Belle Mead	NJ		US
Lee; Francis Y. F.	Yardley	PA		US

US-CL-CURRENT: 514/252.19; 514/370

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D.
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 5. Document ID: US 7122549 B2

L3: Entry 5 of 17

File: USPT

Oct 17, 2006

US-PAT-NO: 7122549

DOCUMENT-IDENTIFIER: US 7122549 B2

TITLE: Saframycins, analogues and uses thereof

DATE-ISSUED: October 17, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040204419 A1	October 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Myers; Andrew G.	Boston	MA		US
Plowright; Alleyn T.	Manchester			GB

US-CL-CURRENT: 514/250; 544/342

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

6. Document ID: US 7091223 B2

L3: Entry 6 of 17

File: USPT

Aug 15, 2006

US-PAT-NO: 7091223

DOCUMENT-IDENTIFIER: US 7091223 B2

TITLE: Cyclic protein tyrosine kinase inhibitors

DATE-ISSUED: August 15, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040073026 A1	April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Das; Jagabandhu	Mercerville	NJ		US
Padmanabha; Ramesh	Hamden	CT		US
Chen; Ping	Belle Mead	NJ		US
Norris; Derek J.	Trenton	NJ		US
Doweyko; Arthur M. P.	Long Valley	NJ		US
Barrish; Joel C.	Holland	PA		US
Wityak; John	Robbinsville	NJ		US

US-CL-CURRENT: 514/342; 546/270.7

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

7. Document ID: US 7087636 B2

L3: Entry 7 of 17

File: USPT

Aug 8, 2006

US-PAT-NO: 7087636

DOCUMENT-IDENTIFIER: US 7087636 B2

TITLE: Fused heterocyclic compounds and analogs thereof, modulators of nuclear hormone receptor function

DATE-ISSUED: August 8, 2006

PRIOR-PUBLICATION:

DOC-ID DATE
US 20030181728 A1 September 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Salvati; Mark E.	Lawrenceville	NJ		US
Balog; James Aaron	Lambertville	NJ		US
Pickering; Dacia A.	Lawrenceville	NJ		US
Zhu; Hong	Lawrenceville	NJ		US

US-CL-CURRENT: 514/412; 548/453

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

 8. Document ID: US 7001911 B2

L3: Entry 8 of 17

File: USPT

Feb 21, 2006

US-PAT-NO: 7001911

DOCUMENT-IDENTIFIER: US 7001911 B2

TITLE: Fused cyclic modulators of nuclear hormone receptor function

DATE-ISSUED: February 21, 2006

PRIOR-PUBLICATION:

DOC-ID DATE
US 20040077606 A1 April 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Salvati; Mark E.	Lawrenceville	NJ		US
Balog; James Aaron	Lambertville	NJ		US
Shan; Weifang	Princeton	NJ		US
Giese; So	New Hope	PA		US
Harikrishnan; Lalgudi S.	Princeton	NJ		US

US-CL-CURRENT: 514/292; 544/183, 544/337, 544/348, 546/23, 546/86, 548/453,
548/531, 548/536

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

 9. Document ID: US 6992102 B2

L3: Entry 9 of 17

File: USPT

Jan 31, 2006

US-PAT-NO: 6992102

DOCUMENT-IDENTIFIER: US 6992102 B2

TITLE: Bicyclic modulators of androgen receptor function

DATE-ISSUED: January 31, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040092559 A1	May 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hamann; Lawrence	Cherry Hill	NJ		US
Augeri; David	Princeton	NJ		US
Sun; Chongqing	East Windsor	NJ		US
Robl; Jeffrey A.	Newtown	PA		US
Salvati; Mark E.	Lawrenceville	NJ		US
Wang; Tammy	Lawrenceville	NJ		US

US-CL-CURRENT: 514/423; 548/530, 548/531, 548/538

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

10. Document ID: US 6979694 B2

L3: Entry 10 of 17

File: USPT

Dec 27, 2005

US-PAT-NO: 6979694

DOCUMENT-IDENTIFIER: US 6979694 B2

TITLE: Cyclic protein tyrosine kinase inhibitors

DATE-ISSUED: December 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Das; Jagabandhu	Mercerville	NJ		
Padmanabha; Ramesh	Hamden	CT		
Chen; Ping	Belle Mead	NJ		
Norris; Derek J.	Trenton	NJ		
Doweyko; Arthur M. P.	Long Valley	NJ		
Barrish; Joel C.	Holland	PA		
Wityak; John	Robbinsville	NJ		

US-CL-CURRENT: 514/342; 514/371, 544/106, 544/133, 546/270.7, 548/195

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Terms	Documents
L1 and safracin	17

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DB=USPT; PLUR=YES; OP=OR

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
<u>L10</u>	L9 and l7	0	<u>L10</u>
<u>L9</u>	velasco.in.	110	<u>L9</u>
<u>L8</u>	L7 and safracin	0	<u>L8</u>
<u>L7</u>	L6 and (SacE or sacC or sacF or sacA or sach or sacJ or orf1)	653	<u>L7</u>
<u>L6</u>	L5 and l1	57366	<u>L6</u>
<u>L5</u>	(pseudomonas fluorescens safracin biosynthesis gene cluster)	168665	<u>L5</u>
<u>L4</u>	L1 and pseudomonas fluorescens safracin biosynthesis gene cluster	159040	<u>L4</u>
<u>L3</u>	L1 and safracin	17	<u>L3</u>
<u>L2</u>	L1 and sacA	19	<u>L2</u>
<u>L1</u>	non-ribosomal peptide synthetase	93330	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L11 and (L1)	1

Database:

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DB=USPT; PLUR=YES; OP=OR

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
<u>L12</u>	<u>L11 and (l1)</u>	1	<u>L12</u>
<u>L11</u>	<u>6551795.pn.</u>	1	<u>L11</u>
<u>L10</u>	<u>L9 and l7</u>	0	<u>L10</u>
<u>L9</u>	<u>velasco.in.</u>	110	<u>L9</u>
<u>L8</u>	<u>L7 and safracin</u>	0	<u>L8</u>
<u>L7</u>	<u>L6 and (SacE or sacC or sacF or sacA or sach or sacJ or orf1)</u>	653	<u>L7</u>
<u>L6</u>	<u>L5 and l1</u>	57366	<u>L6</u>
<u>L5</u>	<u>(pseudomonas fluorescens safracin biosynthesis gene cluster)</u>	168665	<u>L5</u>
<u>L4</u>	<u>L1 and pseudomonas fluorescens safracin biosynthesis gene cluster</u>	159040	<u>L4</u>
<u>L3</u>	<u>L1 and safracin</u>	17	<u>L3</u>
<u>L2</u>	<u>L1 and sacA</u>	19	<u>L2</u>
<u>L1</u>	<u>non-ribosomal peptide synthetase</u>	93330	<u>L1</u>

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=> s non-ribosomal peptide synthetase
L1 1216 NON-RIBOSOMAL PEPTIDE SYNTHETASE

=> s l1 and safracin
L2 21 L1 AND SAFRACIN

=> s 12 and (encoding DNA)

L3 0 L2 AND (ENC)

=> s 12 and (orf1)

=> d 14 ti abs ibib tot

L4 ANSWER 1 OF 2 USP

Cells involved in cell for genetic engineering

AB for genetic engineering A gene cluster has open reading frames which encode polyvalent

AB A gene cluster has open
sufficient to direct the

sufficient to direct the synthesis of a sarracin molecule.

CMS INDEXING IS AVAILABLE FOR THIS PATIENT

ACCESSION NUMBER: 2006:159231 USPATFULL
TITLE: Gene cluster involved in safracin biosynthesis and its uses for genetic engineering
INVENTOR(S): Velasco Iglesias, Ana, Madrid, SPAIN
De La Calle, Fernando, Madrid, SPAIN
Aparicio Perez, Tomas, Madrid, SPAIN
Schleissner Sanchez, Carmen, Madrid, SPAIN
Acebo Pais, Paloma, Madrid, SPAIN
Rodriguez Ramos, Pilar, Madrid, SPAIN
Reyes Benitez, Fernando, Madrid, SPAIN
Henriquez Pelaez, Ruben, Madrid, SPAIN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006134764	A1	20060622
APPLICATION INFO.:	US 2003-540092	A1	20031219 (10)
	WO 2003-GB5563		20031219
			20050922 PCT 371 date

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: MORGAN & FINNEGAN, L.L.P., 3 WORLD FINANCIAL CENTER,
NEW YORK, NY, 10281-2101, US
NUMBER OF CLAIMS: 42
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Page(s)
LINE COUNT: 3298
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 2 OF 2 DGENE COPYRIGHT 2007 The Thomson Corp on STN
TI Nucleic acid comprising a gene cluster encoding one or more non-ribosomal peptide synthetases which catalyze one or more step of the biosynthesis of safracins is useful for producing a safracin compound or its analogue.
AN ADQ62821 protein DGENE
AB The invention relates to a nucleic acid sequence (I) encoding one or more non-ribosomal peptide synthetases which catalyze one or more step of the biosynthesis of safracins, a nucleic acid sequence which is complementary to the sequence, or variants or portions of any of the sequences. (I) is useful for producing a safracin compound or its analogue. (I) is also useful for the combinatorial biosynthesis of one or more of non-ribosomal peptide synthetases, diketopiperazine rings and safracins. The safracin compound is useful as an antitumour agent, as an antimicrobial agent, for producing medicament for the treatment of cancer or microbial infections, or in the synthesis of ecteinascidin compounds. A hybridization probe to the gene is useful for detecting safracin or ecteinascidin gene that is conducted in Ecteinascidia turbinate. This sequence corresponds to the *Pseudomonas fluorescens* strain A2-2 safracin ORF1 protein. This protein is an aminopeptidase-like protein

ACCESSION NUMBER: ADQ62821 protein DGENE
TITLE: Nucleic acid comprising a gene cluster encoding one or more non-ribosomal peptide synthetases which catalyze one or more step of the biosynthesis of safracins is useful for producing a safracin compound or its analogue.

INVENTOR: Velasco Iglesias A; De La Calle F; Aparicio Perez T;
Schleissner Sanchez C; Acebo Pais P; Rodriguez Ramos P; Reyes Benitez F; Henriquez Pelaez R

PATENT ASSIGNEE: (PHAR-N) PHARMA MAR SA.
(RUFF-I) RUFFLES G K.

PATENT INFO: WO 2004056998 A1 20040708
APPLICATION INFO: WO 2003-GB5563 20031219

127

PRIORITY INFO: GB 2002-29793 20021220

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2004-543304 [52]
CROSS REFERENCES: N-PSDB: ADQ62810
DESCRIPTION: Pseudomonas fluorescens safracin protein
ORF1.

=> d his

(FILE 'HOME' ENTERED AT 13:38:08 ON 01 MAR 2007)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS'
ENTERED AT 13:42:37 ON 01 MAR 2007

L1 1216 S NON-RIBOSOMAL PEPTIDE SYNTHETASE
L2 21 S L1 AND SAFRACIN
L3 0 S L2 AND (ENCODING DNA)
L4 2 S L2 AND (ORF1)

=> file biosis

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	21.13	22.81

FILE 'BIOSIS' ENTERED AT 13:45:42 ON 01 MAR 2007

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64687 RIBOSOMAL
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L5 78 NON-RIBOSOMAL PEPTIDE SYNTHETASE
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"HELP COMMANDS" at an arrow prompt (>).

=> s 12

772100 NON
64687 RIBOSOMAL
281890 PEPTIDE
42550 SYNTHETASE
78 NON-RIBOSOMAL PEPTIDE SYNTHETASE
(NON(W)RIBOSOMAL(W)PEPTIDE(W)SYNTHETASE)
9 SAFRACIN
L6 1 L1 AND SAFRACIN

=> d 16 ti abs ibib tot

L6 ANSWER 1 OF 1 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
TI Molecular characterization of the safracin biosynthetic pathway
from Pseudomonas fluorescens A2-2: designing new cytotoxic compounds.
AB Safracin is an antibiotic with anti-tumour activity produced by
Pseudomonas fluorescens A2-2. The entire safracin synthetic
gene cluster spanning 17.5 kb has been identified, cloned and sequenced.

The safracin cluster comprises 10 open reading frames (ORFs) encoding proteins for three non-ribosomal peptide synthetases (NRPS), three safracin precursor biosynthetic enzymes, two safracin tailoring enzymes, a safracin resistance protein and a small hypothetical protein of unknown function. These genes are organized in two divergent operons of eight and two genes respectively. This pathway exhibits unusual features when compared with other NRPS systems. We have demonstrated by heterologous expression of the cluster that it is able to direct the synthesis of safracin in other strains. Cross-feeding experiments have confirmed that 3-hydroxy-5-methyl-O-methyltyrosine is the precursor of two amino acids of the molecule. Genetic analyses have allowed us to demonstrate that the bicistronic operon encodes the hydroxylation and N-methylation activities of the pathway. The cloning and expression of the safracin cluster has settled the basis for the *in vivo* and *in vitro* production of a wide variety of compounds, such as the promising ecteinascidins anti-cancer compounds.

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